April 4, 2003

Attention: TBD

Subject: Request for Proposal (RFP) DL-57003 for the James Webb Space Telescope - Mid-Infrared Instrument (MIRI) Detectors

Enclosed is the Request for Proposal for the procurement of Mid-Infrared Instrument (MIRI) Detectors in accordance with the Specimen Contract and the MIRI Detector Requirements Document D-24161, dated March 25, 2003. These Sensor Chip Assemblies (SCAs) shall be used in the James Webb Space Telescope (JWST). The RFP can be viewed on JPL's Acquisition Web Site at: (http://acquisition.jpl.nasa.gov/rfp/miri).

MIRI is a combination imager and spectrometer with the following modes:

Imaging from 5-28 μm with a variety of fixed filters over a 2. arcmin field-of-view.
Coronography for high spatial resolution, high contrast studies.
Low resolution (R = 100) grism spectroscopy covering 5-10 μm.
High resolution (R ~ 2000) grating spectroscopy, 5-28 μm.

The first three modes will utilize one individual detector array; high-resolution spectroscopy will employ an additional two detector arrays, one covering 5-12 μm, and the other 12-28 μm. The current optical concept does not require any single detector to be located in proximity to either of the others, so the need is for three well-isolated high performance SCAs.

The Contractor shall use Oral Presentations during the proposal evaluation process. Oral presentations shall be prepared in viewgraph format and it is required that the Technical Volume be limited to 100 pages, using fonts not smaller than Times New Roman 12 points.

FUNDING INFORMATION

Provide cost and pricing information in accordance with the detector requirements of the Specimen Contract and Exhibits I and II. To help meet the funding constraints placed on the MIRI Project, provide detailed descope options that can be identified at the Task – WBS level 3 (dollars and hours). Identify detector parameters and statement of work tasks that can be altered as a result of these descopes.

The anticipated funding profile for FY'03 is $1.0 M. The Contractor is responsible for providing the funding profiles for the following FY's:

FY'04 Contractor proposed:
FY'05 Contractor proposed:

FY'06 Contractor proposed:

Highlights of changes to the RFP since the draft was issue are as follows:

1) The quantum efficiency requirement ≥ at 5 microns (non-AR coated).
2) Restricted the number of signal outputs per array to 4.
3) Corrected the calibration requirements to 1%.
4) The SOW has been modified to allow AR-coating at the wafer level.
5) The JWST GIRD and UIRD have been removed from the Applicable Documents list.

The Jet Propulsion Laboratory invites your organization to submit a view-graph proposal in conformance with the instructions contained in the RFP and the Specimen Contract.

As a convenience to JPL, you are requested to provide the undersigned, by no later than, April 18, 2003, a Fax statement that you do or do not intend to submit a proposal. Should the choice be not to propose, please include a brief statement addressing the reasons for your decision not to propose.

All questions and correspondence related to this procurement shall be directed to the undersigned.

Cordially,

Dan Low

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Enclosure: RFP No. DL-57003